



Product Specifications

PRODUCT NAME: Nitric Acid
Krystal Pure

CHEMICAL FORMULA: HNO₃

Product Code: 377200-90000
F.W.: 63.0100
CAS No: 7697-37-2
Density: 1.42

ITEM	SPECIFICATIONS
Appearance	Clear, colorless liquid
Manufacture Date	XX/XX/XX
Expiration Date	1 year from Manufacture Date
Assay (HNO ₃)	69.0 - 70.0%
Color (APHA)	10 max.
Residue After Ignition	2 ppm max.
Chloride (Cl)	0.05 ppm max.
Phosphate (PO ₄)	0.05 ppm max.
Sulfate (SO ₄)	0.2 ppm max.
Aluminum (Al)	5 ppb max.
Arsenic and Antimony (as As)	5 ppb max.
Arsenic (As)	3 ppb max.
Antimony (Sb)	3 ppb max.
Barium (Ba)	10 ppb max.
Beryllium (Be)	10 ppb max.
Bismuth (Bi)	20 ppb max.
Boron (B)	10 ppb max.
Cadmium (Cd)	5 ppb max.
Calcium (Ca)	10 ppb max.
Chromium (Cr)	10 ppb max.
Cobalt (Co)	10 ppb max.
Copper (Cu)	10 ppb max.
Gallium (Ga)	10 ppb max.
Germanium (Ge)	5 ppb max.
Gold (Au)	5 ppb max.
Heavy Metals (as Pb)	100 ppb max.
Iron (Fe)	5 ppb max.
Lead (Pb)	1 ppb max.
Lithium (Li)	5 ppb max.
Magnesium (Mg)	10 ppb max.
Manganese (Mn)	10 ppb max.
Molybdenum (Mo)	10 ppb max.
Nickel (Ni)	10 ppb max.
Niobium (Nb)	10 ppb max.
Potassium (K)	5 ppb max.
Silicon (Si)	50 ppb max.
Silver (Ag)	10 ppb max.
Sodium (Na)	5 ppb max.
Strontium (Sr)	10 ppb max.
Tantalum (Ta)	10 ppb max.



COLUMBUS CHEMICAL INDUSTRIES

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Thallium (Tl)	10 ppb max.
Tin (Sn)	10 ppb max.
Titanium (Ti)	10 ppb max.
Vanadium (V)	10 ppb max.
Zinc (Zn)	10 ppb max.
Zirconium (Zr)	10 ppb max.
Particles (> 0.5 micron)	60 particles/mL max.
Particles (≥ 1.0 micron)	10 particles/mL max.

Remarks:

The above are the specifications, ranges and limits set for this product.

Eddy Santiago
Quality Assurance Manager

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